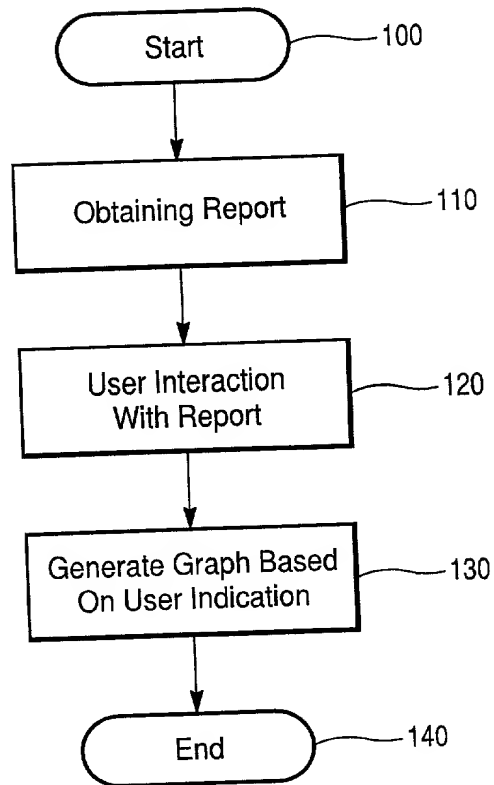


Fig. 1



Title: METHOD, SYSTEM AND  
SOFTWARE FOR AUTOMATED  
GENERATION OF GRAPHS FROM  
REPORT DATA

Inventor(s): Isao MIYADAI  
Appl. No.: 09/819,820

Fig. 2A

Section	Product	Apr.	May	June	July	Aug.	Sept.	Total
Section - 1	A-A	1,000	1,200	900	1,500	750	2,300	7,650
	A-S	800	900	1,100	1,200	900	1,800	6,700

Fig. 2A is a table showing data for Section - 1. The table has 9 columns: Section, Product, Apr., May, June, July, Aug., Sept., and Total. The first row shows data for Section - 1, Product A-A, with values 1,000, 1,200, 900, 1,500, 750, 2,300, and a Total of 7,650. The second row shows data for Section - 1, Product A-S, with values 800, 900, 1,100, 1,200, 900, 1,800, and a Total of 6,700. Labels 201, 202, and (1) point to the table structure.

Fig. 2B

Section	Product	Apr.	May	June	July	Aug.	Sept.	Total
Section - 1	A-A	1,000	1,200	900	1,500	750	2,300	7,650
	A-S	800	900	1,100	1,200	900	1,800	6,700
	Control break key	1,800	2,100	2,000	2,700	1,650	4,100	14,350
Section - 2	A-A	800	2,000	1,000	1,300	600	1,900	7,600
	A-S	1,000	1,300	900	1,200	1,000	2,100	7,500
	A-D	200	250	300	150	200	500	1,600
	Total	2,000	3,550	2,200	2,650	1,800	4,500	16,700
	Dept. Tot.	3,800	5,650	4,200	5,350	3,450	8,600	31,050

Fig. 2B is a table showing data for Section - 1 and Section - 2. The table has 9 columns: Section, Product, Apr., May, June, July, Aug., Sept., and Total. The first row shows data for Section - 1, Product A-A, with values 1,000, 1,200, 900, 1,500, 750, 2,300, and a Total of 7,650. The second row shows data for Section - 1, Product A-S, with values 800, 900, 1,100, 1,200, 900, 1,800, and a Total of 6,700. The third row shows data for Section - 1, Product Control break key, with values 1,800, 2,100, 2,000, 2,700, 1,650, 4,100, and a Total of 14,350. The fourth row shows data for Section - 2, Product A-A, with values 800, 2,000, 1,000, 1,300, 600, 1,900, and a Total of 7,600. The fifth row shows data for Section - 2, Product A-S, with values 1,000, 1,300, 900, 1,200, 1,000, 2,100, and a Total of 7,500. The sixth row shows data for Section - 2, Product A-D, with values 200, 250, 300, 150, 200, 500, and a Total of 1,600. The seventh row shows data for Section - 2, Product Total, with values 2,000, 3,550, 2,200, 2,650, 1,800, 4,500, and a Total of 16,700. The eighth row shows data for Section - 2, Product Dept. Tot., with values 3,800, 5,650, 4,200, 5,350, 3,450, 8,600, and a Total of 31,050. Labels 201, 202, 203, 204, 204H, 204T, 205, 206, 219, and 220 point to the table structure.

Fig. 3A

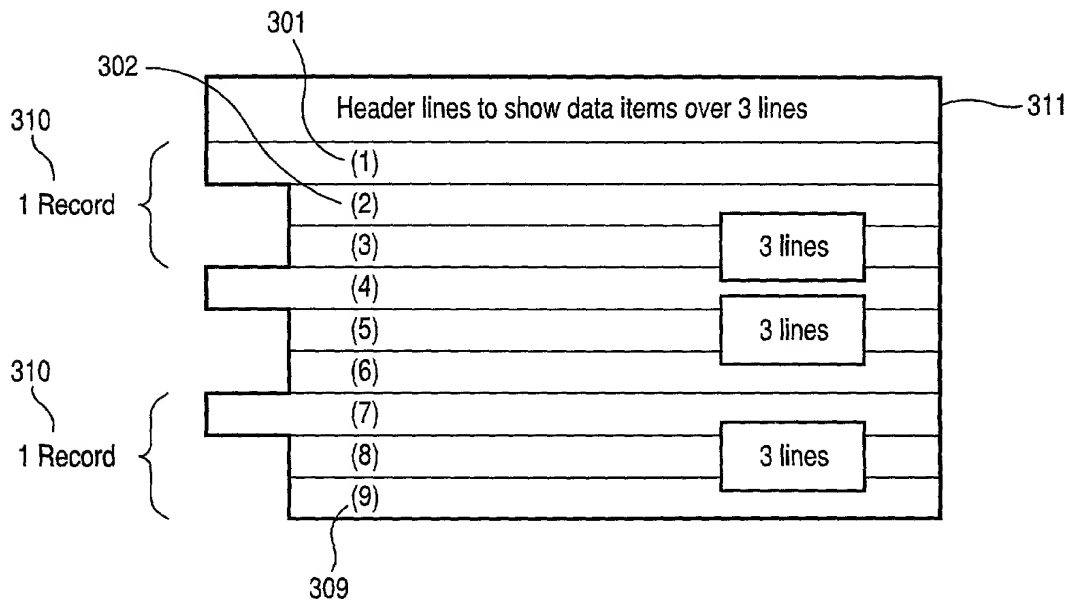


Fig. 3B

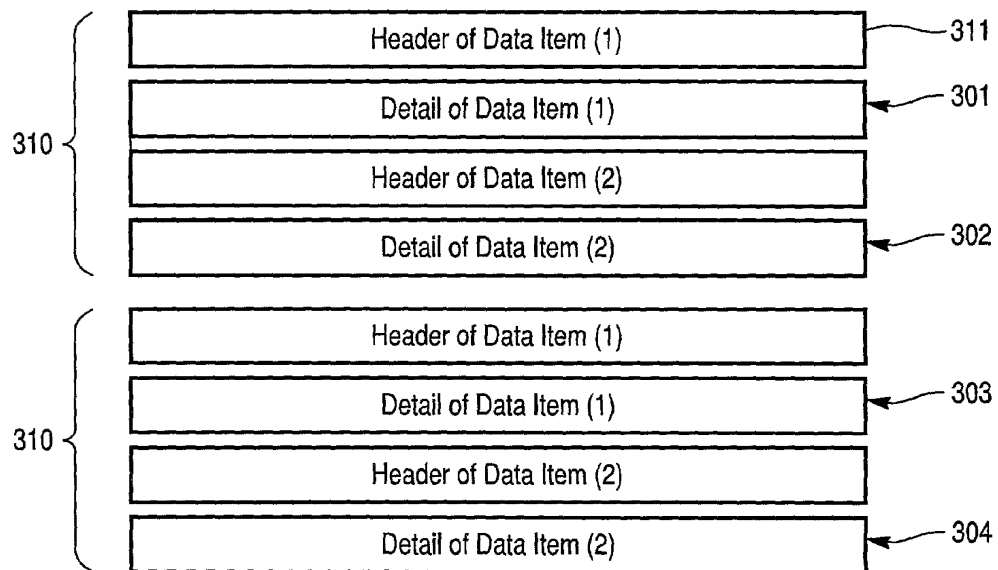


Fig. 3C

Item Headers	Data Items
	(1)
	(2)
	(3)
	(4)
	(5)
	(6)
	(7)
	(8)

301

308

1 Data Record 310

Fig. 3D

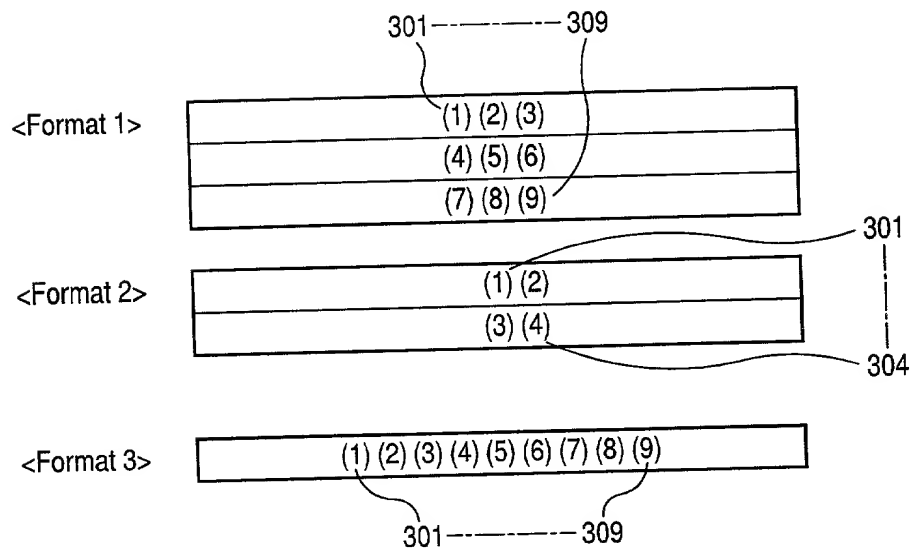


Fig. 4

<Heirarchy of Group Levels>

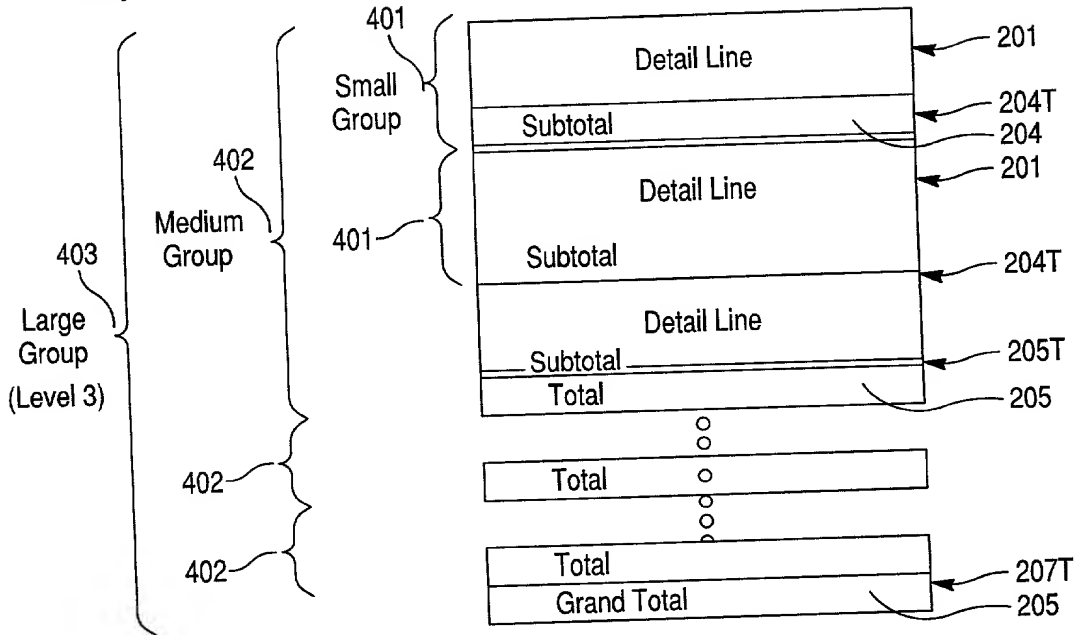


Fig. 5

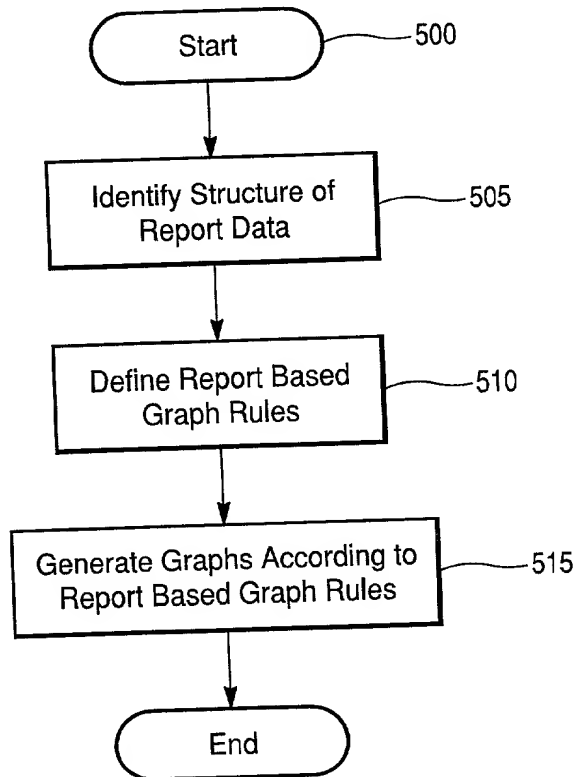


Fig. 6

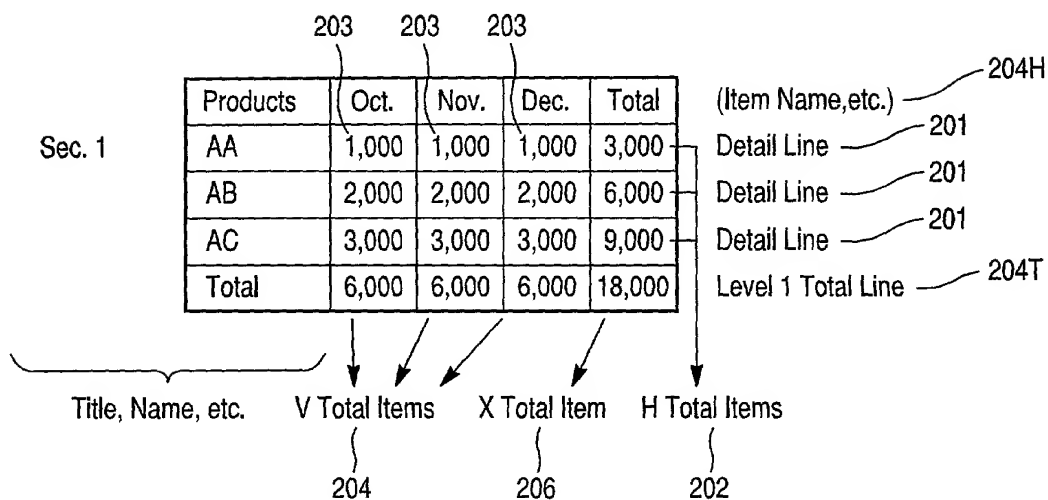


Fig. 7

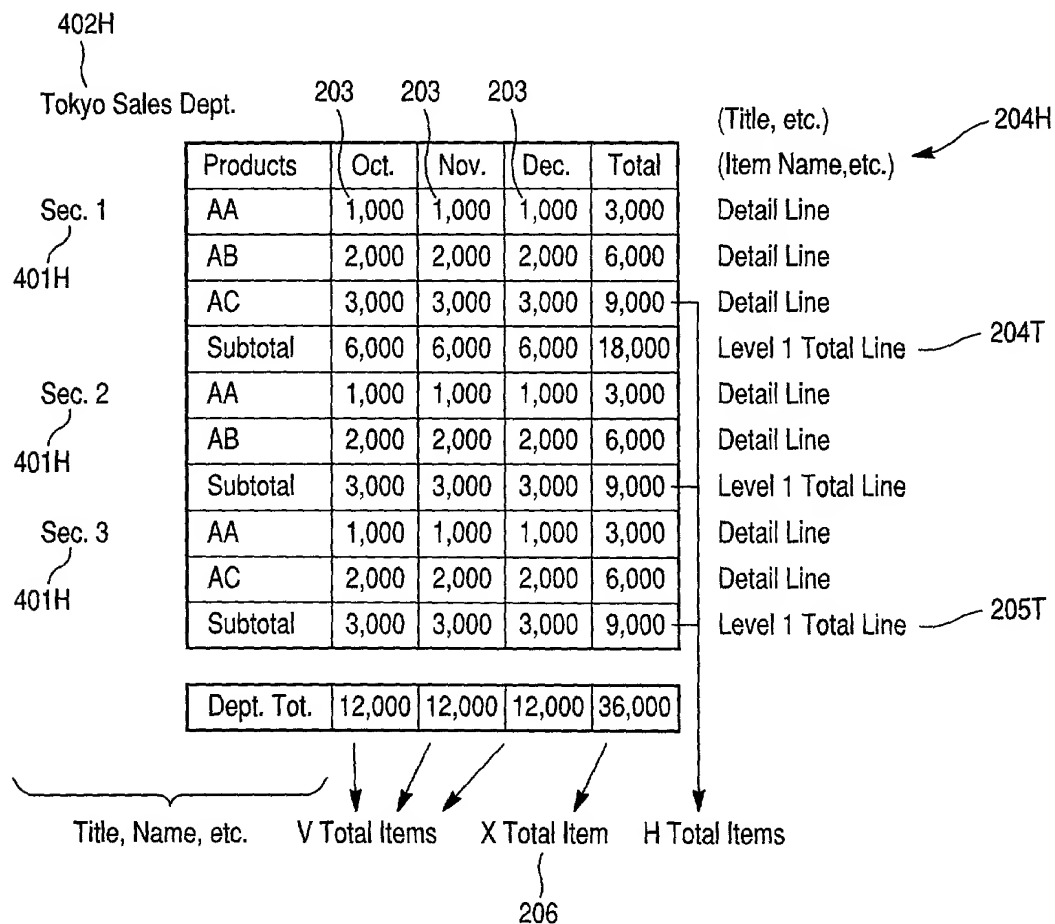
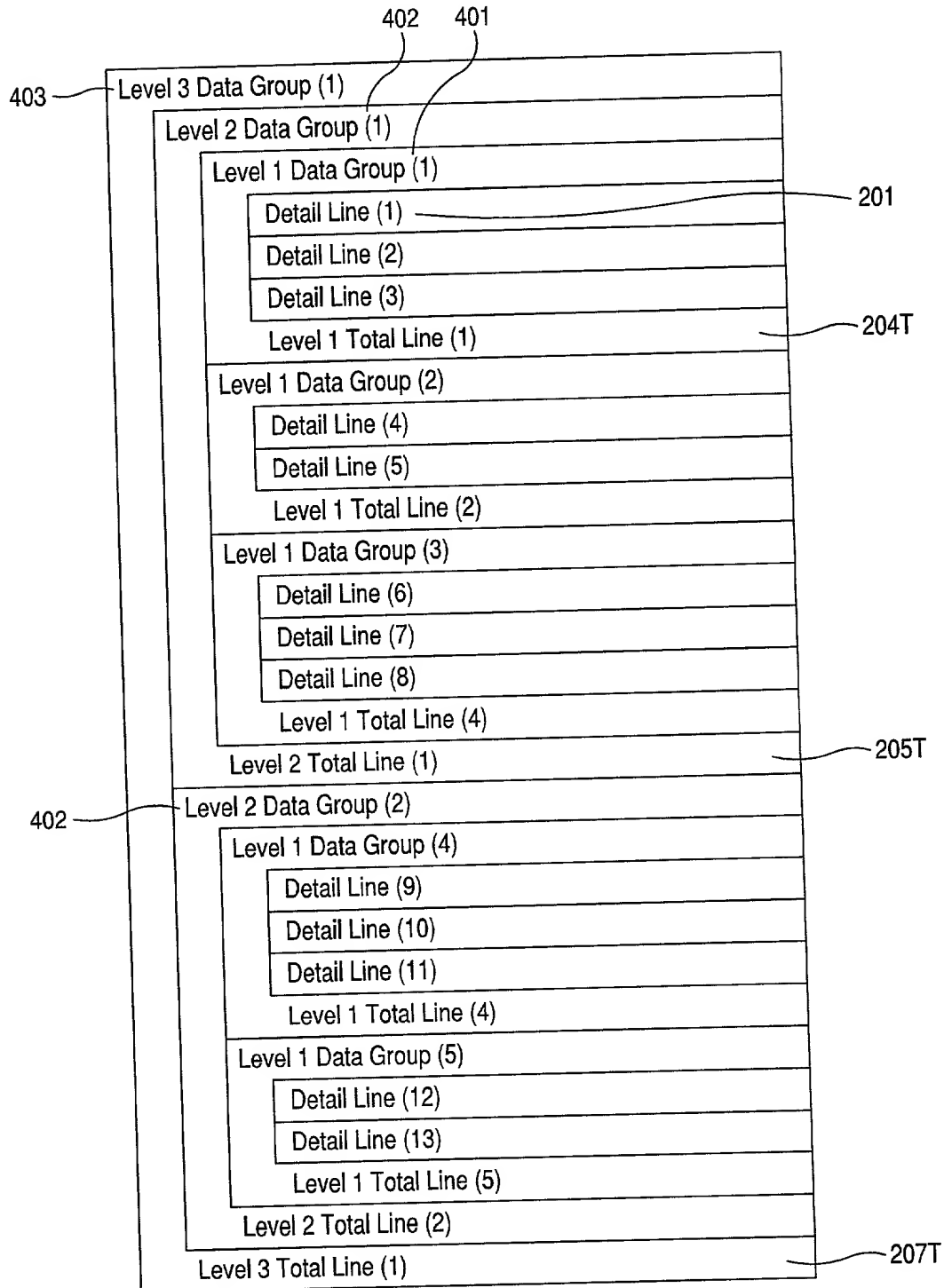


Fig. 8



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Appl. No.: 09/819,820

Fig. 9

Example of Report A  
row number

To Fig. 9 cont. →

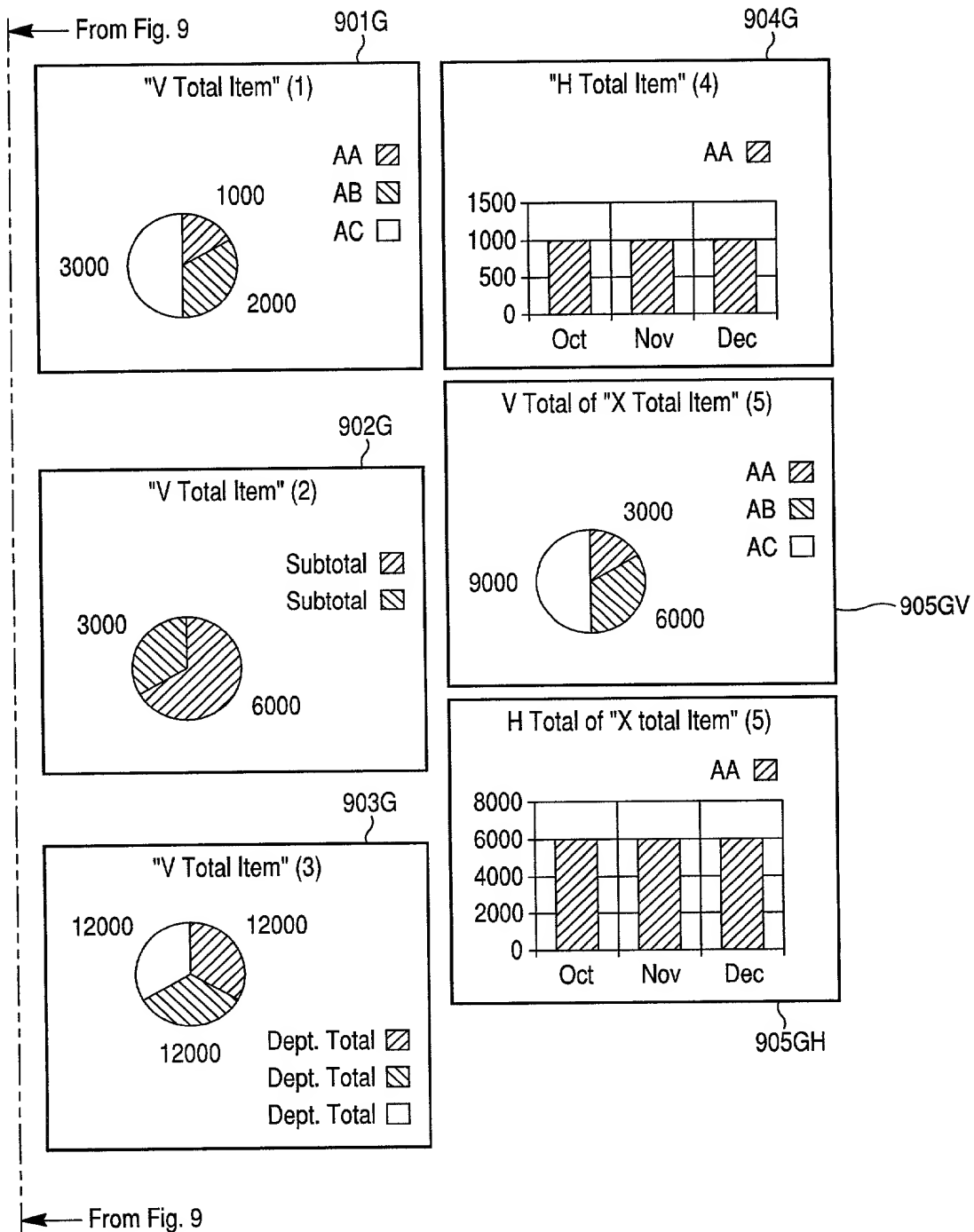
1	Tokyo Sales Dept.					
2		Product	Oct.	Nov.	Dec.	Total
3	Sec. 1	AA	1000	1000	1000	3000
4		AB	2000	2000	2000	6000
5		AC	3000	3000	3000	9000
6		Subtotal	6000	6000	6000	18000
7	Sec. 2	AA	1000	1000	1000	3000
8		AB	2000	2000	2000	6000
9		Subtotal	3000	3000	3000	9000
10	Sec. 3	AA	1000	1000	1000	3000
11		AB	2000	2000	2000	6000
12		Subtotal	3000	3000	3000	9000
13						
14		Dept. Total	12000	12000	12000	36000
15						
16	Yokohama Sales Dept.					
17		Product	Oct.	Nov.	Dec.	Total
18	Sec. 1	AA	1000	1000	1000	3000
19		AB	2000	2000	2000	6000
20		AC	3000	3000	3000	9000
21		Subtotal	6000	6000	6000	18000
22	Sec. 2	AA	1000	1000	1000	3000
23		AD	2000	2000	2000	6000
24		Subtotal	3000	3000	3000	9000
25						
26		Dept. Subtotal	9000	9000	9000	27000
27						
28	Osaka Sales Dept.					
29		Product	Oct.	Nov.	Dec.	Total
30	Sec. 1	AA	1000	1000	1000	3000
31		AB	2000	2000	2000	6000
32		AD	3000	3000	3000	9000
33		Subtotal	6000	6000	6000	18000
34	Sec. 2	AA	2000	2000	2000	6000
35		AC	4000	4000	4000	12000
36		Subtotal	6000	6000	6000	18000
37						
38		Dept. Subtotal	12000	12000	12000	36000
39						
40	Corporate Total		33000	33000	33000	99000

Blue color items are "V Total Items"  
Red color items are "H Total Items"  
Green color items are "X Total Items"

To Fig. 9 cont. →



Fig. 9 (cont.)



Title: METHOD, SYSTEM AND  
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Inventor(s): Isao MIYADAI  
Appl. No.: 09/819,820

Fig. 10

Example of Report B  
row number

1010

1012

To Fig. 10 cont. →

1				
2	Sales (Oct 2000)			
3				
4	Tokyo Sales Dept.			
5	Product	Qty.	Amt. (\$)	
6	Sec. 1	AA	1000	10000
7		AB	2000	25000
8		AC	1500	30000
9		Subtotal		65000
10	Sec. 2	AA	500	12000
11		AB	800	24000
12		Subtotal		36000
13	Sec. 3	AA	1100	30000
14		AC	2000	40000
15		Subtotal		70000
16				
17	Dept. Total	(1)		171000
18				
19	Yokohama Sales Dept.			
20	Product	Qty.	Amt. (\$)	
21	Sec. 1	AA	1500	10000
22		AB	1000	30000
23		Subtotal		40000
24		AA	1000	8000
25		AC	2000	12000
26		Subtotal		20000
27				
28	Dept. Total	(2)		60000
29				
30	Osaka Sales Dept.			
31	Product	Qty.	Amt. (\$)	
32				
33				
34				
35				
36				
37				
38				
39				
40				

	Sales (Nov 2000)			
	Tokyo Sales Dept.			
	Product	Qty.	Amt. (\$)	
	Sec. 1	AA	1000	10000
		AB	2000	25000
		AC	1500	30000
		AD	1000	30000
		Subtotal		95000
	Sec. 2	AA	500	12000
		AB	800	24000
		AC	800	20000
		Subtotal		56000
	Sec. 3	AA	1100	30000
		AB	600	20000
		AC	2000	40000
		Subtotal		90000
	Dept. Total	(2)		241000
	Yokohama Sales Dept.			
	Product	Qty.	Amt. (\$)	
	Sec. 1	AA	1000	8000
		AB	1100	32000
		AC	1000	8000
		Subtotal		48000
	Sec. 2	AA	1000	8000
		AC	2000	12000
		Subtotal		20000
	Dept. Total	(2)		66000
	Osaka Sales Dept.			
	Product	Qty.	Amt. (\$)	

To Fig. 10 cont. →

Fig. 10 (cont.)

